

| Phase (check one)   | Type (check one)  |
|---|---|
| <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Initial Site Investigation</li> <li><input type="checkbox"/> Corrective Action Feasibility Investigation</li> <li><input type="checkbox"/> Corrective Action Plan</li> <li><input type="checkbox"/> Corrective Action Summary Report</li> <li><input type="checkbox"/> Operations and Monitoring Report</li> </ul> | <ul style="list-style-type: none"> <li><input type="checkbox"/> Work Scope</li> <li><input type="checkbox"/> Technical Report</li> <li><input type="checkbox"/> PCF Reimbursement Request</li> <li><input type="checkbox"/> General Correspondence</li> </ul> |

**INITIAL SITE INVESTIGATION REPORT**

MacKenzie Construction Property  
 Elm Street  
 Chester, VT

SEI Project No. 95582

A Facility Owned By:  
 MacKenzie Construction Company  
 Chester, Vermont

Contact:  
 Geomapping Associates, Ltd.  
 RR#1, Box 264  
 Pittsford, VT 05763  
 (802) 483-6635

Prepared by:  
 Stone Environmental, Inc.  
 58 East State St  
 Montpelier, VT 05602  
 (802) 229-4541  
 Contact: Jeffrey Kelley, Project Geoscientist

**February 2, 1996**

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## EXECUTIVE SUMMARY

A 1,000 gallon underground storage tank was removed from MacKenzie Construction property located on Elm Street in Chester, Vermont on December 8, 1995. Results of its removal were submitted by Geomapping Associates, Ltd. to the State of Vermont Hazardous Waste Management Division (HMMD) on December 19, 1995 in a tank pull form and written report. Contaminated soils were encountered in the tank excavation with a maximum reading of 120 parts per million, as measured with a PID. Approximately 50 cubic yards of these soils were polyencapsulated on-site. Their average PID reading was 50 ppm.

Also on December 8, 1995 Stone Environmental, Inc. (SEI) performed an initial site investigation which consisted of the excavation of 3 test pits to the water table. Groundwater samples were collected from each test pit and the tank excavation and submitted to SciTest Laboratories of Randolph, Vermont for EPA Method 8260 analyses. Groundwater in the tank excavation was the only location impacted by gasoline compounds.

Soil samples were also collected and field analyzed for volatile organic compounds (VOCs) with a PID. The only soil contamination detected was from the tank excavation, and these soils were polyencapsulated on-site. The soils should be transported to another parcel of land owned by MacKenzie Construction in the spring, pending site approval from the SMS. They could then be field screened on a yearly basis with a PID to monitor their degradation.

Based on the findings of this investigation, and on behalf of MacKenzie Construction, we are requesting that this site be considered for closure pursuant to the SMAC Classification Procedure Guidelines, dated December 13, 1993.

## 1.0 INTRODUCTION

Stone Environmental, Inc. (SEI) was contracted by Geomapping Associates, Ltd. (GAL) to supervise the removal of an underground storage tank (UST) at MacKenzie Construction property in Chester, Vermont (see Figure 1 - Site Location Map). A tank pull report was submitted to the State of Vermont Hazardous Materials Management Division (HMMD) on December 19, 1995. Upon removal of the UST, it was apparent that soil contamination was present at or near the groundwater table. Therefore, SEI and GAL decided to immediately place the site on the "Site Investigation Expressway" (Expressway) and commenced with the required on-site investigation, which consisted of the excavation of 3 test pits to the groundwater table. Soil samples were collected for field screening with a photoionization detector (PID), and groundwater samples were collected for laboratory analysis. This report describes the methods used in the investigation and presents laboratory results.

## 2.0 SITE HISTORY

The property consists of approximately 5 acres and is owned by MacKenzie Construction Company. The property was formerly owned by the Town of Chester and housed the old town garage. There was 1 UST that had belonged to the town garage that was removed by MacKenzie Construction on September 9, 1988 under the supervision of the Vermont Underground Storage Tank Program. The corresponding tank pull form is included in Attachment 1. In November 1995 SEI was contracted by GAL to supervise the excavation of a series of test pits at the property and determine if there was any soil contamination resulting from past activities. A total of 11 test pits were excavated on November 14, 1995 throughout the property to varying depths. One excavation, TP-10 (see Attachment 2, Site Map) detected elevated PID readings at approximately 14 feet below ground surface (bgs). The water table was also encountered at approximately 14 feet. As the location of TP-10 was upgradient of the former UST location (removed in 1988), it was assumed that the contamination was migrating onto the property from an upgradient source. On November 15, 1995 Mr. Neil MacKenzie, owner of MacKenzie Construction, interviewed a former employee of the old town garage currently working at the new town garage, which is located upgradient of the contaminated test pit. It was during this interview that Mr. MacKenzie was informed that there may be another UST on his property in the vicinity of TP-10. An exploratory test pit on that same day confirmed the presence of a 1,000 gallon gasoline UST. As discussed in the December 19, 1995 Tank Pull Report, the tank was full of product.

## 3.0 TEST PITS AND GROUNDWATER SAMPLING

### 3.1 Test Pit Excavation

SEI supervised the excavation of 3 test pits, in addition to the UST excavation, on December 8, 1995. A site survey was performed by Geomapping Associates, Ltd. and is included as Attachment 2. The location of the test pits from both the November and December 1995 investigations are included in this survey. The purpose of the excavations was to better define the lateral and horizontal extent of the soil and/or groundwater contamination found during the removal of the 1,000 gallon UST (see Tank Pull Report submitted December 19, 1995). All test pits were excavated to the water table to accomplish this. Soils encountered in the test pits were primarily backfill consisting of sands, gravels, stones, and cobbles. According to Mr. MacKenzie, fill had been trucked onto the property many years ago (before he purchased the property) to elevate it from the river. A description of the soils in each test pit follows:

Test Pit 101: Backfill to 17' below ground surface (bgs). Water encountered at 17' bgs.

Test Pit 102: Backfill to 13' bgs, river gravels at 13' to 15.5' bgs. Water encountered at approximately 15.5' bgs.

Test Pit 103: Backfill to 5' bgs, sands and loamy sands to 13' bgs, sands and gravel from 13' - 15.5' bgs. Water encountered at approximately 15' bgs.

A MiniRae® PID equipped with a 10.6 eV lamp was used to field analyze volatile organic compounds (VOCs) in soil samples collected in the test pits. The results were as follows:

Test Pit 101

| DEPTH | PID READING (Background) |
|-------|--------------------------|
| 5'    | 1.3 ppm (0.8)            |
| 12'   | 1.1 ppm (0.8)            |
| 17'   | 1.1 ppm (0.8)            |

Test Pit 102

| DEPTH | PID READING (Background) |
|-------|--------------------------|
| 5'    | 1.5 ppm (0.8)            |
| 10'   | 1.4 ppm (0.8)            |
| 15.5' | 1.4 ppm (0.8)            |

Test Pit 103

| DEPTH | PID READING (Background) |
|-------|--------------------------|
| 5'    | 1.2 ppm (1.1)            |
| 12'   | 1.4 ppm (1.1)            |
| 15.5' | 1.4 ppm (1.1)            |

### 3.2 Groundwater Sampling

Groundwater samples were collected from each test pit by lowering a 40 mL vial ("fill vial") into the test pit with a string and filling it with groundwater. The vial was then emptied into another 40 mL vial which was then capped and labeled. Care was taken not to cap the vials if air bubbles were present. The samples were then stored on ice in a cooler and delivered that same day to SciTest Laboratories in Randolph, Vermont for EPA Method 8260 analysis. The laboratory results are included in Attachment 3.

The only parameters detected by the 8260 analyses were from the UST excavation, labeled "Tank Hole" in the laboratory results. These parameters are all common in gasoline. The following table lists the results:

**Table 1: Laboratory Results for UST Excavation (Tank Hole)  
MacKenzie Construction Property**

| Parameter              | Laboratory Result | GWES                    |
|------------------------|-------------------|-------------------------|
| Benzene                | * 134 ppb         | 5 ppb                   |
| Toluene                | 391 ppb           | 2420 ppb                |
| Ethylbenzene           | 74 ppb            | 680 ppb                 |
| O-Xylene               | 289 ppb           | 400 ppb (total xylenes) |
| Xylenes-m,p            | * 526 ppb         | 400 ppb (total xylenes) |
| tert-Butylbenzene      | 39 ppb            | nps                     |
| p-Isopropyltoluene     | 25 ppb            | nps                     |
| Naphthalene            | * 107 ppb         | 20 ppb (VHAL)           |
| 1,2,4-Trimethylbenzene | * 349 ppb         | nps                     |
| 1,3,5-Trimethylbenzene | * 121 ppb         | nps                     |

GWES = Vermont State Ground Water Enforcement Standard  
VHAL = Vermont Health Advisory Limit  
MCL = Federal Maximum Contaminant Level  
nps = no published standard (VHAL, MCL, or GWES)

#### 4.0 GEOLOGY / HYDROGEOLOGY

As stated above, the site is overlain by backfilled soils brought in many years ago. Based on the soils encountered in the test pits, these backfill soils appear to be above a sand and gravel river deposit, which comprises the surficial aquifer at the site. The depth of this river deposit is not known.

Based on the depth to groundwater encountered in the test pits, as well as the location of the North Branch of the Williams River, interpreted groundwater flow direction is to the east/southeast towards the North Branch of the Williams River.

#### 5.0 POTENTIAL RECEPTORS

According to Mr. MacKenzie, there are no water supply wells located on Elm Street. The southern flowing North Branch of the Williams River is located approximately 155 feet east of the removed UST, and appears to be the only potential receptor in the area.

## 6.0 CONCLUSIONS / RECOMMENDATIONS

There are approximately 50 cubic yards of contaminated soil currently encapsulated on the site (see Attachment 2 for location). These soils have an average PID reading of 50 ppm. The pile is bermed on all sides to prevent potential runoff from precipitation. However, as the North Branch of the Williams River is approximately 140 feet from the stockpiled soils, we recommend moving the soils to a more acceptable location. It is our understanding that Mr. MacKenzie owns other parcels of land in the area that may be more suitable. The soils should be transported in the spring, pending site approval from the SMS. They could then be field screened on a yearly basis with a PID to monitor their degradation.

Based on the groundwater analyses and soil field screening in test pits 101, 102 and 103, and the test pits associated with the November 1995 site assessment, it appears that the contamination present in the former tank vicinity has not migrated substantially from its source. As there were no holes in the removed tank, and the tank was full of product when discovered, the contamination is probably from overfilling, not a catastrophic leak from tank failure. The amount of contamination therefore may not be great.

As stated above, the only potential receptor of the groundwater contamination is the North Branch of the Williams River, which is located approximately 155 feet downgradient of the tank removal site. Groundwater samples indicate that there is no widespread dissolved or free product plume in the area.

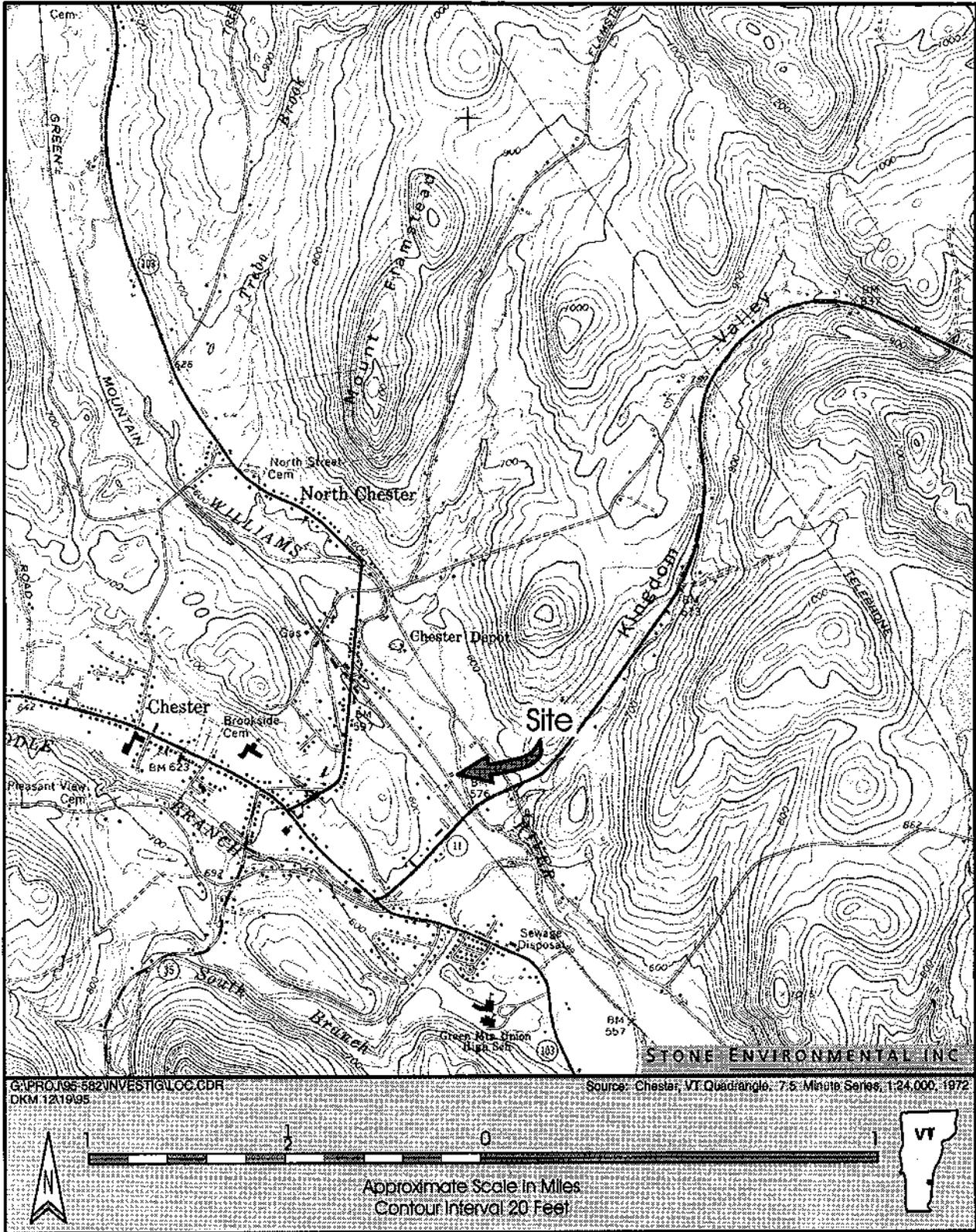
The groundwater present below the tank site is contaminated above State of Vermont standards with benzene and xylenes. However, the contamination does not appear to be widespread, and, based on the lack of groundwater contamination in test pit 101, the contamination is either not moving from its present location, or possibly attenuating as it migrates.

SEI contacted Mr. Bob Haslam of the SMS on January 30, 1995 to discuss site conditions at MacKenzie Construction. Based on this conversation, we feel that the site is a candidate for "Site Management Activities Completed" (SMAC) designation.

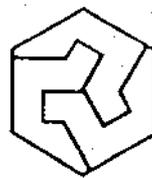
Specifically, we believe that the present soil and water quality data together with the relevant hydrogeological and site history information submitted in this report demonstrates that the site conforms to the intent of the SMAC guidelines as they relate to the identification of the contaminant source, definition and delineation of the nature and extent of the contamination, contaminant containment, and absence of impact to surface waters of the State, neighboring properties or sensitive receptors. The contaminated soils have been removed, which effectively eliminates the potential of further groundwater contamination or rising levels of the current contamination in the area of the removed UST.

Based on the findings of this investigation, and on behalf of MacKenzie Construction, we are requesting that this site be considered for closure pursuant to the SMAC Classification Procedure Guidelines, dated December 13, 1993.

G:\proj\95582\investig\report.doc January 18, 1996



**FIGURE 1**  
**Site Location Map**  
**MacKenzie Construction, Chester, VT**



**SCITEST**  
LABORATORY SERVICES

DEC 19 1995  
By —

ANALYTICAL REPORT

P.O. Box 339  
Randolph, Vermont 05060-0339  
(802) 728-6313

Stone Environmental, Inc.  
58 E. State St.  
Montpelier, VT 05602

~~DEC 15 1995~~

Chris Stone

Work Order No.: 9512-01196

Project Name: Chester 95582  
Customer Nos.: 070233

Date Received: 12/08/95  
Date Reported: 12/18/95

Sample Desc.: TP-101  
Sample Date: 12/08/95  
Test Performed

Collection Time: 10:00  
Results Units

| Method                      | Results  | Units | Analyst | Analysis Date |
|-----------------------------|----------|-------|---------|---------------|
| Volatiles                   | EPA 8260 |       | RJS     | 12/08/95      |
| Carbon tetrachloride        | EPA 8260 | < 1.0 | RJS     | 12/08/95      |
| Bromomethane                | EPA 8260 | < 1.0 | RJS     | 12/08/95      |
| Benzene                     | EPA 8260 | < 1.0 | RJS     | 12/08/95      |
| trans-1,3-Dichloropropene   | EPA 8260 | < 1.0 | RJS     | 12/08/95      |
| trans-1,2-Dichloroethene    | EPA 8260 | < 1.0 | RJS     | 12/08/95      |
| 1,2-Dichloropropane         | EPA 8260 | < 1.0 | RJS     | 12/08/95      |
| 1,2-Dichloroethane          | EPA 8260 | < 1.0 | RJS     | 12/08/95      |
| 1,2-Dichlorobenzene (ortho) | EPA 8260 | < 1.0 | RJS     | 12/08/95      |
| 1,1-Dichloroethene          | EPA 8260 | < 1.0 | RJS     | 12/08/95      |
| 1,1-Dichloroethane          | EPA 8260 | < 1.0 | RJS     | 12/08/95      |
| Trichloroethene (TCE)       | EPA 8260 | < 1.0 | RJS     | 12/08/95      |
| 1,1,2-Trichloroethane       | EPA 8260 | < 1.0 | RJS     | 12/08/95      |
| 1,1,1-Trichloroethane       | EPA 8260 | < 1.0 | RJS     | 12/08/95      |
| Ethylbenzene                | EPA 8260 | < 1.0 | RJS     | 12/08/95      |
| Tetrachloroethene (PCE)     | EPA 8260 | < 1.0 | RJS     | 12/08/95      |
| 1,1,2,2-Tetrachloroethane   | EPA 8260 | < 1.0 | RJS     | 12/08/95      |
| Chloromethane               | EPA 8260 | < 1.0 | RJS     | 12/08/95      |
| Dibromomethane              | EPA 8260 | < 1.0 | RJS     | 12/08/95      |
| Chloroform                  | EPA 8260 | < 1.0 | RJS     | 12/08/95      |
| Bromoform                   | EPA 8260 | < 1.0 | RJS     | 12/08/95      |
| Bromodichloromethane        | EPA 8260 | < 1.0 | RJS     | 12/08/95      |
| Chlorobenzene               | EPA 8260 | < 1.0 | RJS     | 12/08/95      |
| Chloroethane                | EPA 8260 | < 1.0 | RJS     | 12/08/95      |
| Methylene chloride          | EPA 8260 | < 5.0 | RJS     | 12/08/95      |
| Trichlorofluoromethane      | EPA 8260 | < 1.0 | RJS     | 12/08/95      |
| Vinyl Chloride              | EPA 8260 | < 1.0 | RJS     | 12/08/95      |
| Dibromochloromethane        | EPA 8260 | < 1.0 | RJS     | 12/08/95      |
| o-Xylene                    | EPA 8260 | < 2.0 | RJS     | 12/08/95      |
| Dichlorodifluoromethane     | EPA 8260 | < 1.0 | RJS     | 12/08/95      |
| Xylenes-m,p                 | EPA 8260 | < 2.0 | RJS     | 12/08/95      |
| Acetone                     | EPA 8260 | < 10  | RJS     | 12/08/95      |
| 2-Butanone (MEK)            | EPA 8260 | < 10  | RJS     | 12/08/95      |

CEQLS 12-19-95

## ANALYTICAL REPORT

Project Name: Chester 95582

Project No.: 070233

Work Order No.: 9512-01196

Sample Desc.: TP-101

Sample Date: 12/08/95

Collection Time: 10:00

Test Performed

Method

Results

Units

Analyst

Analysis Date

|                             |          |       |            |     |          |
|-----------------------------|----------|-------|------------|-----|----------|
| Carbon disulfide            | EPA 8260 | < 10  | ug/L       | RJS | 12/08/95 |
| 2-Hexanone                  | EPA 8260 | < 10  | ug/L       | RJS | 12/08/95 |
| 4-Methyl-2-Pentanone (MIBK) | EPA 8260 | < 10  | ug/L       | RJS | 12/08/95 |
| Styrene                     | EPA 8260 | < 2.0 | ug/L       | RJS | 12/08/95 |
| 1,2,3-Trichloropropane      | EPA 8260 | < 1.0 | ug/L       | RJS | 12/08/95 |
| Bromobenzene                | EPA 8260 | < 1.0 | ug/L       | RJS | 12/08/95 |
| Bromochloromethane          | EPA 8260 | < 1.0 | ug/L       | RJS | 12/08/95 |
| n-Butylbenzene              | EPA 8260 | < 1.0 | ug/L       | RJS | 12/08/95 |
| sec-Butylbenzene            | EPA 8260 | < 1.0 | ug/L       | RJS | 12/08/95 |
| tert-Butylbenzene           | EPA 8260 | < 1.0 | ug/L       | RJS | 12/08/95 |
| 2-Chlorotoluene (ortho)     | EPA 8260 | < 1.0 | ug/L       | RJS | 12/08/95 |
| 4-Chlorotoluene (para)      | EPA 8260 | < 1.0 | ug/L       | RJS | 12/08/95 |
| 1,2-Dibromo-3-Chloropropane | EPA 8260 | < 2.0 | ug/L       | RJS | 12/08/95 |
| 1,2-Dibromoethane (EDB)     | EPA 8260 | < 1.0 | ug/L       | RJS | 12/08/95 |
| 1,3-Dichlorobenzene (meta)  | EPA 8260 | < 1.0 | ug/L       | RJS | 12/08/95 |
| 1,4-Dichlorobenzene (para)  | EPA 8260 | < 1.0 | ug/L       | RJS | 12/08/95 |
| cis 1,2-Dichloroethene      | EPA 8260 | < 1.0 | ug/L       | RJS | 12/08/95 |
| 1,3-Dichloropropane         | EPA 8260 | < 1.0 | ug/L       | RJS | 12/08/95 |
| 2,2-Dichloropropane         | EPA 8260 | < 1.0 | ug/L       | RJS | 12/08/95 |
| 1,1-Dichloropropene         | EPA 8260 | < 1.0 | ug/L       | RJS | 12/08/95 |
| Hexachlorobutadiene         | EPA 8260 | < 1.0 | ug/L       | RJS | 12/08/95 |
| Isopropylbenzene            | EPA 8260 | < 1.0 | ug/L       | RJS | 12/08/95 |
| p-Isopropyltoluene          | EPA 8260 | < 1.0 | ug/L       | RJS | 12/08/95 |
| Naphthalene                 | EPA 8260 | < 2.0 | ug/L       | RJS | 12/08/95 |
| n-Propylbenzene             | EPA 8260 | < 1.0 | ug/L       | RJS | 12/08/95 |
| 1,1,1,2-Tetrachloroethane   | EPA 8260 | < 1.0 | ug/L       | RJS | 12/08/95 |
| 1,2,3-Trichlorobenzene      | EPA 8260 | < 1.0 | ug/L       | RJS | 12/08/95 |
| 1,2,4-Trichlorobenzene      | EPA 8260 | < 1.0 | ug/L       | RJS | 12/08/95 |
| 1,2,4-Trimethylbenzene      | EPA 8260 | < 1.0 | ug/L       | RJS | 12/08/95 |
| 1,3,5-Trimethylbenzene      | EPA 8260 | < 1.0 | ug/L       | RJS | 12/08/95 |
| Toluene                     | EPA 8260 | < 1.0 | ug/L       | RJS | 12/08/95 |
| cis-1,3-Dichloropropene     | EPA 8260 | < 1.0 | ug/L       | RJS | 12/08/95 |
| Methyl Tertiary Butyl Ether | EPA 8260 | < 1.0 | ug/L       | RJS | 12/08/95 |
| Surrogate:                  |          |       |            |     |          |
| ***Dibromofluoromethane     |          | 96.4  | % Recovery | RJS | 12/08/95 |
| ***Toluene-d8               |          | 103   | % Recovery | RJS | 12/08/95 |
| ***Bromofluorobenzene       |          | 96.4  | % Recovery | RJS | 12/08/95 |

## ANALYTICAL REPORT

Project Name: Chester 95582  
Project No.: 070233

Work Order No.: 9512-01196

| Sample Desc.: TP-102        | Method         | Collection Time: 10:00 | Results | Units | Analyst | Analysis Date |
|-----------------------------|----------------|------------------------|---------|-------|---------|---------------|
| Sample Date: 12/08/95       | Test Performed |                        |         |       |         |               |
| Volatiles                   | EPA 8260       |                        |         |       | RJS     | 12/08/95      |
| Carbon tetrachloride        | EPA 8260       | < 1.0                  | ug/L    |       | RJS     | 12/08/95      |
| Bromomethane                | EPA 8260       | < 1.0                  | ug/L    |       | RJS     | 12/08/95      |
| Benzene                     | EPA 8260       | < 1.0                  | ug/L    |       | RJS     | 12/08/95      |
| trans-1,3-Dichloropropene   | EPA 8260       | < 1.0                  | ug/L    |       | RJS     | 12/08/95      |
| trans-1,2-Dichloroethene    | EPA 8260       | < 1.0                  | ug/L    |       | RJS     | 12/08/95      |
| 1,2-Dichloropropane         | EPA 8260       | < 1.0                  | ug/L    |       | RJS     | 12/08/95      |
| 1,2-Dichloroethane          | EPA 8260       | < 1.0                  | ug/L    |       | RJS     | 12/08/95      |
| 1,2-Dichlorobenzene (ortho) | EPA 8260       | < 1.0                  | ug/L    |       | RJS     | 12/08/95      |
| 1,1-Dichloroethene          | EPA 8260       | < 1.0                  | ug/L    |       | RJS     | 12/08/95      |
| 1,1-Dichloroethane          | EPA 8260       | < 1.0                  | ug/L    |       | RJS     | 12/08/95      |
| Trichloroethene (TCE)       | EPA 8260       | < 1.0                  | ug/L    |       | RJS     | 12/08/95      |
| 1,1,2-Trichloroethane       | EPA 8260       | < 1.0                  | ug/L    |       | RJS     | 12/08/95      |
| 1,1,1-Trichloroethane       | EPA 8260       | < 1.0                  | ug/L    |       | RJS     | 12/08/95      |
| Ethylbenzene                | EPA 8260       | < 1.0                  | ug/L    |       | RJS     | 12/08/95      |
| Tetrachloroethene (PCE)     | EPA 8260       | < 1.0                  | ug/L    |       | RJS     | 12/08/95      |
| 1,1,2,2-Tetrachloroethane   | EPA 8260       | < 1.0                  | ug/L    |       | RJS     | 12/08/95      |
| Chloromethane               | EPA 8260       | < 1.0                  | ug/L    |       | RJS     | 12/08/95      |
| Dibromomethane              | EPA 8260       | < 1.0                  | ug/L    |       | RJS     | 12/08/95      |
| Chloroform                  | EPA 8260       | < 1.0                  | ug/L    |       | RJS     | 12/08/95      |
| Bromoform                   | EPA 8260       | < 1.0                  | ug/L    |       | RJS     | 12/08/95      |
| Bromodichloromethane        | EPA 8260       | < 1.0                  | ug/L    |       | RJS     | 12/08/95      |
| Chlorobenzene               | EPA 8260       | < 1.0                  | ug/L    |       | RJS     | 12/08/95      |
| Chloroethane                | EPA 8260       | < 1.0                  | ug/L    |       | RJS     | 12/08/95      |
| Methylene chloride          | EPA 8260       | < 5.0                  | ug/L    |       | RJS     | 12/08/95      |
| Trichlorofluoromethane      | EPA 8260       | < 1.0                  | ug/L    |       | RJS     | 12/08/95      |
| Vinyl Chloride              | EPA 8260       | < 1.0                  | ug/L    |       | RJS     | 12/08/95      |
| Dibromochloromethane        | EPA 8260       | < 1.0                  | ug/L    |       | RJS     | 12/08/95      |
| o-Xylene                    | EPA 8260       | < 2.0                  | ug/L    |       | RJS     | 12/08/95      |
| Dichlorodifluoromethane     | EPA 8260       | < 1.0                  | ug/L    |       | RJS     | 12/08/95      |
| Xylenes-m,p                 | EPA 8260       | < 2.0                  | ug/L    |       | RJS     | 12/08/95      |
| Acetone                     | EPA 8260       | < 10                   | ug/L    |       | RJS     | 12/08/95      |
| 2-Butanone (MEK)            | EPA 8260       | < 10                   | ug/L    |       | RJS     | 12/08/95      |
| Carbon disulfide            | EPA 8260       | < 10                   | ug/L    |       | RJS     | 12/08/95      |
| 2-Hexanone                  | EPA 8260       | < 10                   | ug/L    |       | RJS     | 12/08/95      |
| 4-Methyl-2-Pentanone (MIBK) | EPA 8260       | < 10                   | ug/L    |       | RJS     | 12/08/95      |
| Styrene                     | EPA 8260       | < 2.0                  | ug/L    |       | RJS     | 12/08/95      |
| 1,1,3-Trichloropropane      | EPA 8260       | < 1.0                  | ug/L    |       | RJS     | 12/08/95      |
| Bromobenzene                | EPA 8260       | < 1.0                  | ug/L    |       | RJS     | 12/08/95      |
| Bromochloromethane          | EPA 8260       | < 1.0                  | ug/L    |       | RJS     | 12/08/95      |

## ANALYTICAL REPORT

Project Name: Chester 95582  
Project No.: 070233

Work Order No.: 9512-01196

Sample Desc.: TP-102  
Sample Date: 12/08/95

Collection Time: 10:00

| Test Performed              | Method   | Results | Units      | Analyst | Analysis Date |
|-----------------------------|----------|---------|------------|---------|---------------|
| n-Butylbenzene              | EPA 8260 | < 1.0   | ug/L       | RJS     | 12/08/95      |
| sec-Butylbenzene            | EPA 8260 | < 1.0   | ug/L       | RJS     | 12/08/95      |
| tert-Butylbenzene           | EPA 8260 | < 1.0   | ug/L       | RJS     | 12/08/95      |
| 2-Chlorotoluene (ortho)     | EPA 8260 | < 1.0   | ug/L       | RJS     | 12/08/95      |
| 4-Chlorotoluene (para)      | EPA 8260 | < 1.0   | ug/L       | RJS     | 12/08/95      |
| 1,2-Dibromo-3-Chloropropane | EPA 8260 | < 2.0   | ug/L       | RJS     | 12/08/95      |
| 1,2-Dibromoethane (EDB)     | EPA 8260 | < 1.0   | ug/L       | RJS     | 12/08/95      |
| 1,3-Dichlorobenzene (meta)  | EPA 8260 | < 1.0   | ug/L       | RJS     | 12/08/95      |
| 1,4-Dichlorobenzene (para)  | EPA 8260 | < 1.0   | ug/L       | RJS     | 12/08/95      |
| cis 1,2-Dichloroethene      | EPA 8260 | < 1.0   | ug/L       | RJS     | 12/08/95      |
| 1,3-Dichloropropane         | EPA 8260 | < 1.0   | ug/L       | RJS     | 12/08/95      |
| 2,2-Dichloropropane         | EPA 8260 | < 1.0   | ug/L       | RJS     | 12/08/95      |
| 1,1-Dichloropropene         | EPA 8260 | < 1.0   | ug/L       | RJS     | 12/08/95      |
| Hexachlorobutadiene         | EPA 8260 | < 1.0   | ug/L       | RJS     | 12/08/95      |
| Isopropylbenzene            | EPA 8260 | < 1.0   | ug/L       | RJS     | 12/08/95      |
| p-Isopropyltoluene          | EPA 8260 | < 1.0   | ug/L       | RJS     | 12/08/95      |
| Naphthalene                 | EPA 8260 | < 2.0   | ug/L       | RJS     | 12/08/95      |
| n-Propylbenzene             | EPA 8260 | < 1.0   | ug/L       | RJS     | 12/08/95      |
| 1,1,1,2-Tetrachloroethane   | EPA 8260 | < 1.0   | ug/L       | RJS     | 12/08/95      |
| 1,2,3-Trichlorobenzene      | EPA 8260 | < 1.0   | ug/L       | RJS     | 12/08/95      |
| 1,2,4-Trichlorobenzene      | EPA 8260 | < 1.0   | ug/L       | RJS     | 12/08/95      |
| 1,2,4-Trimethylbenzene      | EPA 8260 | < 1.0   | ug/L       | RJS     | 12/08/95      |
| 1,3,5-Trimethylbenzene      | EPA 8260 | < 1.0   | ug/L       | RJS     | 12/08/95      |
| Toluene                     | EPA 8260 | < 1.0   | ug/L       | RJS     | 12/08/95      |
| cis-1,3-Dichloropropene     | EPA 8260 | < 1.0   | ug/L       | RJS     | 12/08/95      |
| Methyl Tertiary Butyl Ether | EPA 8260 | < 1.0   | ug/L       | RJS     | 12/08/95      |
| Surrogate:                  |          |         |            |         |               |
| ***Dibromofluoromethane     |          | 98.8    | % Recovery | RJS     | 12/08/95      |
| ***Toluene-d8               |          | 101     | % Recovery | RJS     | 12/08/95      |
| ***Bromofluorobenzene       |          | 97.3    | % Recovery | RJS     | 12/08/95      |

Sample Desc.: TP-103  
Sample Date: 12/08/95

Collection Time: 10:00

| Test Performed       | Method   | Results | Units | Analyst | Analysis Date |
|----------------------|----------|---------|-------|---------|---------------|
| Volatiles            | EPA 8260 |         |       | RJS     | 12/08/95      |
| Carbon tetrachloride | EPA 8260 | < 1.0   | ug/L  | RJS     | 12/08/95      |
| Bromomethane         | EPA 8260 | < 1.0   | ug/L  | RJS     | 12/08/95      |
| Benzene              | EPA 8260 | < 1.0   | ug/L  | RJS     | 12/08/95      |



## ANALYTICAL REPORT

Project Name: Chester 95582  
 Project No.: 070233

Work Order No.: 9512-01196

| Sample Desc.: TP-103        | Method   | Collection Time: 10:00 | Results | Units | Analyst | Analysis Date |
|-----------------------------|----------|------------------------|---------|-------|---------|---------------|
| Sample Date: 12/08/95       |          |                        |         |       |         |               |
| Test Performed              |          |                        |         |       |         |               |
| trans-1,3-Dichloropropene   | EPA 8260 |                        | < 1.0   | ug/L  | RJS     | 12/08/95      |
| trans-1,2-Dichloroethene    | EPA 8260 |                        | < 1.0   | ug/L  | RJS     | 12/08/95      |
| 1,2-Dichloropropane         | EPA 8260 |                        | < 1.0   | ug/L  | RJS     | 12/08/95      |
| 1,2-Dichloroethane          | EPA 8260 |                        | < 1.0   | ug/L  | RJS     | 12/08/95      |
| 1,2-Dichlorobenzene (ortho) | EPA 8260 |                        | < 1.0   | ug/L  | RJS     | 12/08/95      |
| 1,1-Dichloroethene          | EPA 8260 |                        | < 1.0   | ug/L  | RJS     | 12/08/95      |
| 1,1-Dichloroethane          | EPA 8260 |                        | < 1.0   | ug/L  | RJS     | 12/08/95      |
| Trichloroethene (TCE)       | EPA 8260 |                        | < 1.0   | ug/L  | RJS     | 12/08/95      |
| 1,1,2-Trichloroethane       | EPA 8260 |                        | < 1.0   | ug/L  | RJS     | 12/08/95      |
| 1,1,1-Trichloroethane       | EPA 8260 |                        | < 1.0   | ug/L  | RJS     | 12/08/95      |
| Ethylbenzene                | EPA 8260 |                        | < 1.0   | ug/L  | RJS     | 12/08/95      |
| Tetrachloroethene (PCE)     | EPA 8260 |                        | < 1.0   | ug/L  | RJS     | 12/08/95      |
| 1,1,2,2-Tetrachloroethane   | EPA 8260 |                        | < 1.0   | ug/L  | RJS     | 12/08/95      |
| Chloromethane               | EPA 8260 |                        | < 1.0   | ug/L  | RJS     | 12/08/95      |
| Dibromomethane              | EPA 8260 |                        | < 1.0   | ug/L  | RJS     | 12/08/95      |
| Chloroform                  | EPA 8260 |                        | < 1.0   | ug/L  | RJS     | 12/08/95      |
| Bromoform                   | EPA 8260 |                        | < 1.0   | ug/L  | RJS     | 12/08/95      |
| Bromodichloromethane        | EPA 8260 |                        | < 1.0   | ug/L  | RJS     | 12/08/95      |
| Chlorobenzene               | EPA 8260 |                        | < 1.0   | ug/L  | RJS     | 12/08/95      |
| Chloroethane                | EPA 8260 |                        | < 1.0   | ug/L  | RJS     | 12/08/95      |
| Methylene chloride          | EPA 8260 |                        | < 5.0   | ug/L  | RJS     | 12/08/95      |
| Trichlorofluoromethane      | EPA 8260 |                        | < 1.0   | ug/L  | RJS     | 12/08/95      |
| Vinyl Chloride              | EPA 8260 |                        | < 1.0   | ug/L  | RJS     | 12/08/95      |
| Dibromochloromethane        | EPA 8260 |                        | < 1.0   | ug/L  | RJS     | 12/08/95      |
| o-Xylene                    | EPA 8260 |                        | < 2.0   | ug/L  | RJS     | 12/08/95      |
| Dichlorodifluoromethane     | EPA 8260 |                        | < 1.0   | ug/L  | RJS     | 12/08/95      |
| Xylenes-m,p                 | EPA 8260 |                        | < 2.0   | ug/L  | RJS     | 12/08/95      |
| Acetone                     | EPA 8260 |                        | < 10    | ug/L  | RJS     | 12/08/95      |
| 2-Butanone (MEK)            | EPA 8260 |                        | < 10    | ug/L  | RJS     | 12/08/95      |
| Carbon disulfide            | EPA 8260 |                        | < 10    | ug/L  | RJS     | 12/08/95      |
| 2-Hexanone                  | EPA 8260 |                        | < 10    | ug/L  | RJS     | 12/08/95      |
| 4-Methyl-2-Pentanone (MIBK) | EPA 8260 |                        | < 10    | ug/L  | RJS     | 12/08/95      |
| Styrene                     | EPA 8260 |                        | < 2.0   | ug/L  | RJS     | 12/08/95      |
| 1,2,3-Trichloropropane      | EPA 8260 |                        | < 1.0   | ug/L  | RJS     | 12/08/95      |
| Bromobenzene                | EPA 8260 |                        | < 1.0   | ug/L  | RJS     | 12/08/95      |
| Bromochloromethane          | EPA 8260 |                        | < 1.0   | ug/L  | RJS     | 12/08/95      |
| n-Butylbenzene              | EPA 8260 |                        | < 1.0   | ug/L  | RJS     | 12/08/95      |
| sec-Butylbenzene            | EPA 8260 |                        | < 1.0   | ug/L  | RJS     | 12/08/95      |
| tert-Butylbenzene           | EPA 8260 |                        | < 1.0   | ug/L  | RJS     | 12/08/95      |
| 2-Chlorotoluene (ortho)     | EPA 8260 |                        | < 1.0   | ug/L  | RJS     | 12/08/95      |

## ANALYTICAL REPORT

Project Name: Chester 95582  
Project No.: 070233

Work Order No.: 9512-01196

| Sample Desc.: TP-103        | Method         | Collection Time: 10:00 | Results | Units      | Analyst | Analysis Date |
|-----------------------------|----------------|------------------------|---------|------------|---------|---------------|
| Sample Date: 12/08/95       | Test Performed |                        |         |            |         |               |
| 4-Chlorotoluene (para)      | EPA 8260       |                        | < 1.0   | ug/L       | RJS     | 12/08/95      |
| 1,2-Dibromo-3-Chloropropane | EPA 8260       |                        | < 2.0   | ug/L       | RJS     | 12/08/95      |
| 1,2-Dibromoethane (EDB)     | EPA 8260       |                        | < 1.0   | ug/L       | RJS     | 12/08/95      |
| 1,3-Dichlorobenzene (meta)  | EPA 8260       |                        | < 1.0   | ug/L       | RJS     | 12/08/95      |
| 1,4-Dichlorobenzene (para)  | EPA 8260       |                        | < 1.0   | ug/L       | RJS     | 12/08/95      |
| cis 1,2-Dichloroethene      | EPA 8260       |                        | < 1.0   | ug/L       | RJS     | 12/08/95      |
| 1,3-Dichloropropane         | EPA 8260       |                        | < 1.0   | ug/L       | RJS     | 12/08/95      |
| 2,2-Dichloropropane         | EPA 8260       |                        | < 1.0   | ug/L       | RJS     | 12/08/95      |
| 1,1-Dichloropropene         | EPA 8260       |                        | < 1.0   | ug/L       | RJS     | 12/08/95      |
| Hexachlorobutadiene         | EPA 8260       |                        | < 1.0   | ug/L       | RJS     | 12/08/95      |
| Isopropylbenzene            | EPA 8260       |                        | < 1.0   | ug/L       | RJS     | 12/08/95      |
| p-Isopropyltoluene          | EPA 8260       |                        | < 1.0   | ug/L       | RJS     | 12/08/95      |
| Naphthalene                 | EPA 8260       |                        | < 2.0   | ug/L       | RJS     | 12/08/95      |
| n-Propylbenzene             | EPA 8260       |                        | < 1.0   | ug/L       | RJS     | 12/08/95      |
| 1,1,1,2-Tetrachloroethane   | EPA 8260       |                        | < 1.0   | ug/L       | RJS     | 12/08/95      |
| 1,2,3-Trichlorobenzene      | EPA 8260       |                        | < 1.0   | ug/L       | RJS     | 12/08/95      |
| 1,2,4-Trichlorobenzene      | EPA 8260       |                        | < 1.0   | ug/L       | RJS     | 12/08/95      |
| 1,2,4-Trimethylbenzene      | EPA 8260       |                        | < 1.0   | ug/L       | RJS     | 12/08/95      |
| 1,3,5-Trimethylbenzene      | EPA 8260       |                        | < 1.0   | ug/L       | RJS     | 12/08/95      |
| Toluene                     | EPA 8260       |                        | < 1.0   | ug/L       | RJS     | 12/08/95      |
| cis-1,3-Dichloropropene     | EPA 8260       |                        | < 1.0   | ug/L       | RJS     | 12/08/95      |
| Methyl Tertiary Butyl Ether | EPA 8260       |                        | < 1.0   | ug/L       | RJS     | 12/08/95      |
| Surrogate:                  |                |                        |         |            |         |               |
| ***Dibromofluoromethane     |                |                        | 106     | % Recovery | RJS     | 12/08/95      |
| ***Toluene-d8               |                |                        | 98.4    | % Recovery | RJS     | 12/08/95      |
| ***Bromofluorobenzene       |                |                        | 95.8    | % Recovery | RJS     | 12/08/95      |

| Sample Desc.: Tank Hole   | Method         | Collection Time: 10:00 | Results | Units | Analyst | Analysis Date |
|---------------------------|----------------|------------------------|---------|-------|---------|---------------|
| Sample Date: 12/08/95     | Test Performed |                        |         |       |         |               |
| Volatiles                 | EPA 8260       |                        |         |       | RJS     | 12/08/95      |
| Carbon tetrachloride      | EPA 8260       |                        | < 25    | ug/L  | RJS     | 12/08/95      |
| Bromomethane              | EPA 8260       |                        | < 25    | ug/L  | RJS     | 12/08/95      |
| Benzene                   | EPA 8260       |                        | 134     | ug/L  | RJS     | 12/08/95      |
| trans-1,3-Dichloropropene | EPA 8260       |                        | < 25    | ug/L  | RJS     | 12/08/95      |
| trans-1,2-Dichloroethene  | EPA 8260       |                        | < 25    | ug/L  | RJS     | 12/08/95      |
| 1,2-Dichloropropane       | EPA 8260       |                        | < 25    | ug/L  | RJS     | 12/08/95      |
| 1,2-Dichloroethane        | EPA 8260       |                        | < 25    | ug/L  | RJS     | 12/08/95      |

## ANALYTICAL REPORT

Project Name: Chester 95582  
 Project No.: 070233

Work Order No.: 9512-01196

| Sample Desc.: Tank Hole     | Method   | Collection Time: 10:00 | Results | Units | Analyst | Analysis Date |
|-----------------------------|----------|------------------------|---------|-------|---------|---------------|
| Sample Date: 12/08/95       |          |                        |         |       |         |               |
| Test Performed              |          |                        |         |       |         |               |
| 1,2-Dichlorobenzene (ortho) | EPA 8260 |                        | < 25    | ug/L  | RJS     | 12/08/95      |
| 1,1-Dichloroethene          | EPA 8260 |                        | < 25    | ug/L  | RJS     | 12/08/95      |
| 1,1-Dichloroethane          | EPA 8260 |                        | < 25    | ug/L  | RJS     | 12/08/95      |
| Trichloroethene (TCE)       | EPA 8260 |                        | < 25    | ug/L  | RJS     | 12/08/95      |
| 1,1,2-Trichloroethane       | EPA 8260 |                        | < 25    | ug/L  | RJS     | 12/08/95      |
| 1,1,1-Trichloroethane       | EPA 8260 |                        | < 25    | ug/L  | RJS     | 12/08/95      |
| Ethylbenzene                | EPA 8260 |                        | 74      | ug/L  | RJS     | 12/08/95      |
| Tetrachloroethene (PCE)     | EPA 8260 |                        | < 25    | ug/L  | RJS     | 12/08/95      |
| 1,1,2,2-Tetrachloroethane   | EPA 8260 |                        | < 25    | ug/L  | RJS     | 12/08/95      |
| Chloromethane               | EPA 8260 |                        | < 25    | ug/L  | RJS     | 12/08/95      |
| Dibromomethane              | EPA 8260 |                        | < 25    | ug/L  | RJS     | 12/08/95      |
| Chloroform                  | EPA 8260 |                        | < 25    | ug/L  | RJS     | 12/08/95      |
| Bromoform                   | EPA 8260 |                        | < 25    | ug/L  | RJS     | 12/08/95      |
| Bromodichloromethane        | EPA 8260 |                        | < 25    | ug/L  | RJS     | 12/08/95      |
| Chlorobenzene               | EPA 8260 |                        | < 25    | ug/L  | RJS     | 12/08/95      |
| Chloroethane                | EPA 8260 |                        | < 25    | ug/L  | RJS     | 12/08/95      |
| Methylene chloride          | EPA 8260 |                        | < 25    | ug/L  | RJS     | 12/08/95      |
| Trichlorofluoromethane      | EPA 8260 |                        | < 25    | ug/L  | RJS     | 12/08/95      |
| Vinyl Chloride              | EPA 8260 |                        | < 25    | ug/L  | RJS     | 12/08/95      |
| Dibromochloromethane        | EPA 8260 |                        | < 25    | ug/L  | RJS     | 12/08/95      |
| o-Xylene                    | EPA 8260 |                        | 289     | ug/L  | RJS     | 12/08/95      |
| Dichlorodifluoromethane     | EPA 8260 |                        | < 25    | ug/L  | RJS     | 12/08/95      |
| Xylenes-m,p                 | EPA 8260 |                        | 526     | ug/L  | RJS     | 12/08/95      |
| Acetone                     | EPA 8260 |                        | < 250   | ug/L  | RJS     | 12/08/95      |
| 2-Butanone (MEK)            | EPA 8260 |                        | < 250   | ug/L  | RJS     | 12/08/95      |
| Carbon disulfide            | EPA 8260 |                        | < 250   | ug/L  | RJS     | 12/08/95      |
| 2-Hexanone                  | EPA 8260 |                        | < 250   | ug/L  | RJS     | 12/08/95      |
| 4-Methyl-2-Pentanone (MIBK) | EPA 8260 |                        | < 250   | ug/L  | RJS     | 12/08/95      |
| Styrene                     | EPA 8260 |                        | < 50    | ug/L  | RJS     | 12/08/95      |
| 1,2,3-Trichloropropane      | EPA 8260 |                        | < 25    | ug/L  | RJS     | 12/08/95      |
| Bromobenzene                | EPA 8260 |                        | < 25    | ug/L  | RJS     | 12/08/95      |
| Bromochloromethane          | EPA 8260 |                        | < 25    | ug/L  | RJS     | 12/08/95      |
| n-Butylbenzene              | EPA 8260 |                        | < 25    | ug/L  | RJS     | 12/08/95      |
| sec-Butylbenzene            | EPA 8260 |                        | < 25    | ug/L  | RJS     | 12/08/95      |
| tert-Butylbenzene           | EPA 8260 |                        | 39      | ug/L  | RJS     | 12/08/95      |
| 2-Chlorotoluene (ortho)     | EPA 8260 |                        | < 25    | ug/L  | RJS     | 12/08/95      |
| 4-Chlorotoluene (para)      | EPA 8260 |                        | < 25    | ug/L  | RJS     | 12/08/95      |
| 1,2-Dibromo-3-Chloropropane | EPA 8260 |                        | < 50    | ug/L  | RJS     | 12/08/95      |
| 1,2-Dibromoethane (EDB)     | EPA 8260 |                        | < 25    | ug/L  | RJS     | 12/08/95      |
| 1,3-Dichlorobenzene (meta)  | EPA 8260 |                        | < 25    | ug/L  | RJS     | 12/08/95      |

## ANALYTICAL REPORT

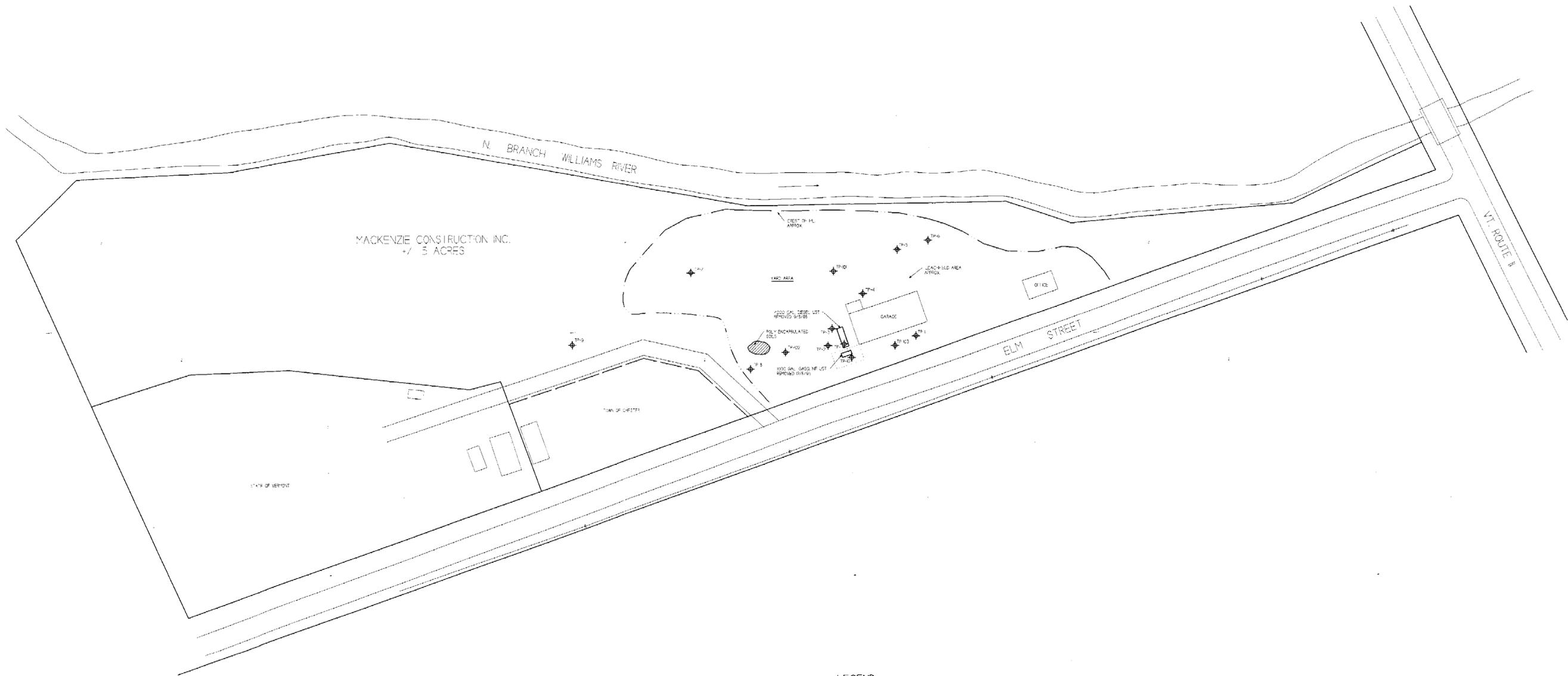
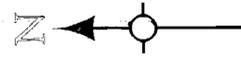
Project Name: Chester 95582

Project No.: 070233

Work Order No.: 9512-01196

| Sample Desc.: Tank Hole     | Method   | Collection Time: 10:00 | Results | Units      | Analyst | Analysis Date |
|-----------------------------|----------|------------------------|---------|------------|---------|---------------|
| Sample Date: 12/08/95       |          |                        |         |            |         |               |
| Test Performed              |          |                        |         |            |         |               |
| 1,4-Dichlorobenzene (para)  | EPA 8260 |                        | < 25    | ug/L       | RJS     | 12/08/95      |
| cis 1,2-Dichloroethene      | EPA 8260 |                        | < 25    | ug/L       | RJS     | 12/08/95      |
| 1,3-Dichloropropane         | EPA 8260 |                        | < 25    | ug/L       | RJS     | 12/08/95      |
| 2,2-Dichloropropane         | EPA 8260 |                        | < 25    | ug/L       | RJS     | 12/08/95      |
| 1,1-Dichloropropene         | EPA 8260 |                        | < 25    | ug/L       | RJS     | 12/08/95      |
| Hexachlorobutadiene         | EPA 8260 |                        | < 25    | ug/L       | RJS     | 12/08/95      |
| Isopropylbenzene            | EPA 8260 |                        | < 25    | ug/L       | RJS     | 12/08/95      |
| p-Isopropyltoluene          | EPA 8260 |                        | 25      | ug/L       | RJS     | 12/08/95      |
| Naphthalene                 | EPA 8260 |                        | 107     | ug/L       | RJS     | 12/08/95      |
| n-Propylbenzene             | EPA 8260 |                        | < 25    | ug/L       | RJS     | 12/08/95      |
| 1,1,1,2-Tetrachloroethane   | EPA 8260 |                        | < 25    | ug/L       | RJS     | 12/08/95      |
| 1,2,3-Trichlorobenzene      | EPA 8260 |                        | < 25    | ug/L       | RJS     | 12/08/95      |
| 1,2,4-Trichlorobenzene      | EPA 8260 |                        | < 25    | ug/L       | RJS     | 12/08/95      |
| 1,2,4-Trimethylbenzene      | EPA 8260 |                        | 349     | ug/L       | RJS     | 12/08/95      |
| 1,3,5-Trimethylbenzene      | EPA 8260 |                        | 121     | ug/L       | RJS     | 12/08/95      |
| Toluene                     | EPA 8260 |                        | 391     | ug/L       | RJS     | 12/08/95      |
| cis-1,3-Dichloropropene     | EPA 8260 |                        | < 25    | ug/L       | RJS     | 12/08/95      |
| Methyl Tertiary Butyl Ether | EPA 8260 |                        | < 25    | ug/L       | RJS     | 12/08/95      |
| Surrogate:                  |          |                        |         |            |         |               |
| ***Dibromofluoromethane     |          |                        | 100     | % Recovery | RJS     | 12/08/95      |
| ***Toluene-d8               |          |                        | 103     | % Recovery | RJS     | 12/08/95      |
| ***Bromofluorobenzene       |          |                        | 93.8    | % Recovery | RJS     | 12/08/95      |

Authorized by: *James S. Wood*



LEGEND:

- TEST PT
- POWER POLE
- RIVER
- PROPERTY BOUNDARY
- PROPERTY BOUNDARY (Approximated)

NOTES:

1. PROPERTY BOUNDARY INFORMATION DIGITIZED FROM SOUTHERN VERMONT SURVEY MAP, 974  
 PROPERTY BOUNDARY LOCATIONS SHOWN ARE APPROXIMATE

2. TEST PT LOCATIONS FIELD SURVEYED BY GEOMAPPING ASSOCIATES LTD. NOV. 1996.

|  |                      |
|--|----------------------|
| LOCATION MAP<br>MACKENZIE CONSTRUCTION INC. PROPERTY |                      |
| ELM STREET<br>CHESTER, VERMONT                       |                      |
| DRAWN BY: J. R. PDY                                  | SCALE: 50' 0 50' 00' |
| CHK'D: DATE: 7/2/96                                  |                      |
| REVISIONS:   |                      |